

Register No.: ..... Name: .....

**SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)**

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

**SECOND SEMESTER M.C.A DEGREE EXAMINATION (Regular), JULY 2022****(2021 SCHEME)****Course Code: 21CA202****Course Name: Web and Database Security****Max. Marks: 60****Duration: 3 Hours****PART A***(Answer all questions. Each question carries 3 marks)*

1. Differentiate substitution and transposition techniques with any one example for each.
2. What are the three primary facets of today's web security problem?
3. Discuss cookies and its applications.
4. What is a local HTTP proxy? List its uses.
5. List the major classes of classical access control models. Brief on each.
6. What is trust negotiation?
7. Brief the activities according to the NIST security audit criteria with a neat diagram.
8. Explain the goal of trustworthy retention of records.
9. Write about different request scenarios based on the mobility of requesters and resources, in authorization model in a mobile environment.
10. Explain find-auth method.

**PART B***(Answer one full question from each module, each question carries 6 marks)***MODULE I**

11. Discuss symmetric key encryption concept and public key encryption concept with an example for each. (6)

**OR**

12. Explain the architecture of the world wide web. (6)

**MODULE II**

13. Write about various privacy-protecting techniques and technologies. (6)

**OR**

14. Why backups are needed? What are the various types of backups? (6)

**MODULE III**

15. What is Credential-based access control? Explain the issues to be considered while developing a credential based access control system. (6)

**OR**

16. Explain trust management. (6)

**MODULE IV**

17. Write a review of database watermarking approaches. (6)

**OR**

18. Discuss the trustworthy migration process. (6)

**MODULE V**

19. Explain the system architecture for a mobile application environment with a neat diagram. (6)

**OR**

20. Explain the approaches for unified index scheme for authorizations and moving objects in enforcement of mobile security and privacy. (6)

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